

Job Name/Location:

Tag No.:

Date:

For:	File	Resubmit
	Approval	Other

PO No.:

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

**ARWM144CAS5**

Multi V™ Water V 575V

12 Ton Water Source Unit for Heat Pump and Heat Recov-

**Performance:**

Cooling Mode:

Nominal Capacity (Btu/h) <sup>1</sup>	144,000
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Heating Mode:

Nominal Capacity (Btu/h) <sup>1</sup>	162,000
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Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at [www.ahridirectory.org](http://www.ahridirectory.org).

**Electrical:**<sup>5,6</sup>

Power Supply (V/Hz/Ø)	575/60/3
MOP (A)	25
MCA (A)	14.5
Rated Amps (A)	11.6

**Piping:**<sup>7</sup>

Refrigerant Charge (lbs.)	6.6
Liquid (in., O.D.)	1/2
High Pressure Vapor (in., O.D.)	7/8
Low Pressure Vapor (in., O.D.)	1-1/8

**Water Piping:**<sup>7</sup>

Inlet / Outlet (inches)	1-1/2
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**Condenser Water:**

Flow Rate (gpm)	17.8 - 53.3
Pressure Drop (ft.-w.g.)	6.50

**Condensate Piping:**

Condensate Line (inches)	3/4
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**Standard Features:**

- Fault Detection and Diagnosis
- Smart Oil Control
- HiPOR (High Pressure Oil Return)
- Internal Refrigerant Cooling Control
- Subcooling and Vapor Injection Control

**Standard Accessories:**
☐ PT / NPT Conversion Thread
**Optional Accessories:**
☐ Variable Water Flow Valve Control Kit - PWFCKN000
**Water Operating Range:**<sup>2</sup>

Cooling Mode Entering Water Range (°F)	23 - 113
Heating Mode Entering Water Range (°F)	14 - 113
Synchronous Mode Entering Water Range (°F)	23 - 113

**Unit Data:**

Refrigerant Type	R410A
Refrigerant Control	EEV
Max. Number of Indoor Units	23
Sound Pressure dB(A) <sup>3</sup>	
Cooling / Heating	54 / 54
Weight	
Net (lbs.)	348
Shipping (lbs.)	370
Communication Cable (No x AWG) <sup>5,6</sup>	2 x 18
Heat Exchanger Type	Stainless Steel Plate

**Compressor:**

Type	Hermetic Scroll
Drive	Inverter
Quantity	1
Oil / Type	PVE / FVC68D

**Notes:**

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change.
2. When entering water temperature is lower than 59°F, variable water flow control kit PWFCKN000 is required. When entering water temperature is lower than 50°F, water solution must be minimum 45% antifreeze.
3. Sound pressure levels are tested in anechoic chamber under ISO 3745 Standard.
4. Value is calculated as follows:  $\Delta T = \text{Total Heat of Rejection} / (\text{Nominal Flow Rate} \times 500)$
5. Communication cable between WSU, IDU(s) / HRU(s), and Central Controller must be a minimum of 2-conductor, 18 AWG, twisted, stranded, and shielded. Ensure the communication cable shield is properly grounded to the WSU chassis only. Do not ground the communication cable at any other point. Wiring must comply with all applicable local and national codes.
6. Power wiring is field provided, solid or stranded, and must comply with all applicable local and national codes.
7. LG requires that LATS software be used on all projects to ensure correct line sizing. Designer must verify the shop drawing design against the as built design using LATS. Contractor must also use LG manufactured Y-Branch and Header Kits only.



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ARWM144CAS5

Multi V™ Water 5 Heat Pump/Heat Recovery

12 Ton Water Source Unit

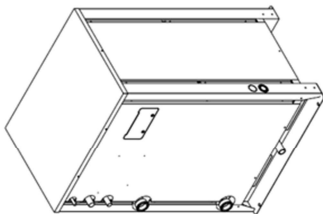


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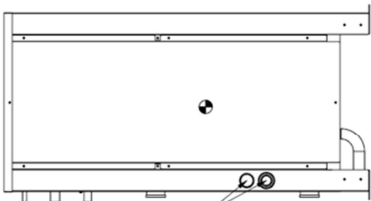
Date: \_\_\_\_\_

PO No: \_\_\_\_\_

X	13-1/16"
Y	11-1/4"
Z	19-11/16"
W	30-3/8"
D	21- 1/2"
H	44-1/8"
L1	7-3/16"
L2	25-3/4"
L3	33-7/8"
L4	37-7/8"
L5	41-1/2"
L6	3"
L7	1-15/16"
L8	15-3/16"
M1	22-9/16"
M2	1/2"
M3	2-3/16"
M4	25-7/8"

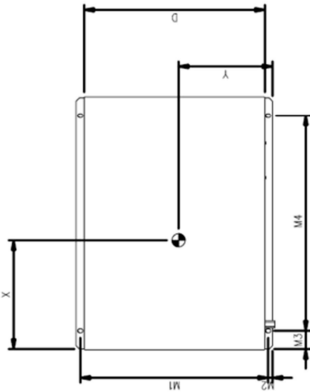


Isometric

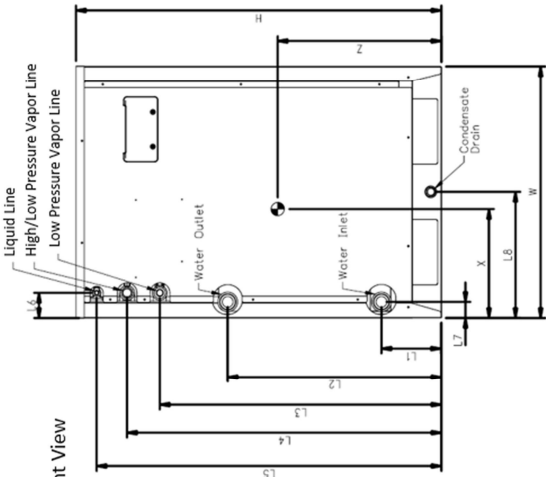


Side View

Wiring Entry



Top View



Front View

For continual product development, LG reserves the right to change specifications without notice.